



MAR 10 1980

DPM 5229 - Quenchants Polyalkylene Glycol
MATERIAL SAFETY DATA SHEET (Ucon A)

FEB 05 1982



CHEMICAL NAME: UCON® QUENCHANTS A, B, C, HT

SYNONYMS: Metal tempering fluid

CHEMICAL FAMILY: Polyalkylene Glycol

FORMULA: Inhibited aqueous solution

MOLECULAR WEIGHT: —

TRADE NAME AND SYNONYMS: UCON Quenchant A; UCON Quenchant B;
UCON Quenchant C; UCON Quenchant HT

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	> 100 °C. (> 212 °F.)	FREEZING POINT	0° to -20 °C. (32° to -4 °F.)
SPECIFIC GRAVITY (H ₂ O = 1)	1.075 to 1.11 at 20/20 °C.	VAPOR PRESSURE AT 20°C.	~ 17 mm. Hg
VAPOR DENSITY (air = 1)	< 1	SOLUBILITY IN WATER, % by wt.	Complete
PER CENT VOLATILES BY VOLUME	45-61	EVAPORATION RATE (Butyl Acetate = 1)	1
APPEARANCE AND ODOR	Straw-colored liquid; characteristic odor.		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
(See Sections III through VIII)		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT [test method(s)]	None, closed cup None, open cup
FLAMMABLE LIMITS IN AIR, % by volume	Not determined (aqueous system)
EXTINGUISHING MEDIA	None
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE AND EXPLOSION HAZARDS	If water is evaporated, polyalkylene glycol could burn: water spray is a suitable extinguishing agent.

EMERGENCY PHONE NUMBER

304/744-3487

This number is available days, nights, weekends, and holidays.

While Union Carbide Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Union Carbide Corporation assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and local laws and regulations.

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IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	None established by ACGIH or OSHA.
EFFECTS OF OVEREXPOSURE	None currently known.
EMERGENCY AND FIRST AID PROCEDURES	Wash off with water.

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
---	✓		
INCOMPATIBILITY (materials to avoid)	(See Section VIII)		
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, and small amounts of oxides of nitrogen.		
HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID	None	
May Occur			
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VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Collect in a suitable container for disposal. Small spills should be flushed with large quantities of water.
WASTE DISPOSAL METHOD	Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	None needed in normal usage (See Section VIII).		
VENTILATION	LOCAL EXHAUST	(See Section VIII)	SPECIAL ---
	MECHANICAL (general)	(See Section VIII)	OTHER ---
PROTECTIVE GLOVES	Rubber or plastic	EYE PROTECTION	Safety glasses
OTHER PROTECTIVE EQUIPMENT	Eye bath and safety shower		

VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	<p style="text-align: center;">UCON® QUENCHANTS A, B, C, HT</p> <p style="text-align: center;">On the basis of the toxicological, physical, and chemical properties of UCON Quenchants A, B, C, HT, precautionary labeling used on the containers is as follows:</p> <p style="text-align: center;">FOR INDUSTRY USE ONLY</p>
OTHER HANDLING AND STORAGE CONDITIONS	Avoid contact with amines; can form nitrosamines. Due to the varied end use of these products, some installations may require special ventilation and protective equipment where spraying and/or splashing occurs.